


## UHPLC CERTIFICATE OF ANALYSIS

### SAMPLE INFORMATION

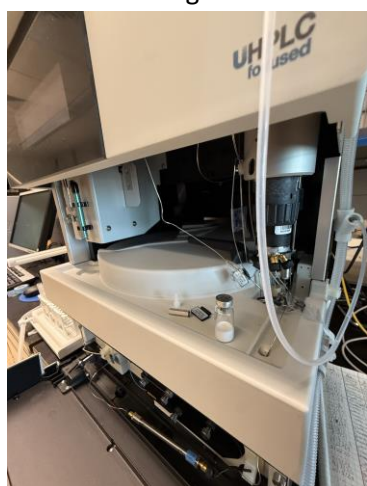
Sample received:

<b>Product Name</b>	Semax 5mg Batch No. 73630
<b>Sequence</b>	Met-Glu-His-Phe-Pro-Gly-Pro
<b>Dissolution Condition</b>	<p>100% UHPLC water with 0.1% Trifluoroacetic Acid (TFA). Dissolved sample picture included here.</p> 
<b>Molecular Weight</b>	~899.01 g/mol

**STORAGE CONDITION:** 0 °C

### SAMPLE NOTES

One 3 ml clear glass vial with silver cap and silver aluminum crimp. Lyophilized powder present.



## PUMP SETTINGS

<b>Pump A</b>	100% H2O with .1% Trifluoroacetic Acid
<b>Pump D</b>	100% Acetonitrile.
<b>Column Usage</b>	Agilent Zorbax 300SB-C18, 2.1 x 100 mm, 1.7 $\mu$ m, 300 Å
<b>Gradient</b>	- 5% D hold (0–1 min) - 5–40% D over 18 min (1.9% D/min) - Hold 40% D (3 min) - Re-equilibrate to 5% D over 3 min - Total run time: ~25 min.
<b>Pump Settings</b>	0.6 mL/min
<b>Injection Volume:</b>	10 $\mu$ L
<b>Temperature</b>	30 °C

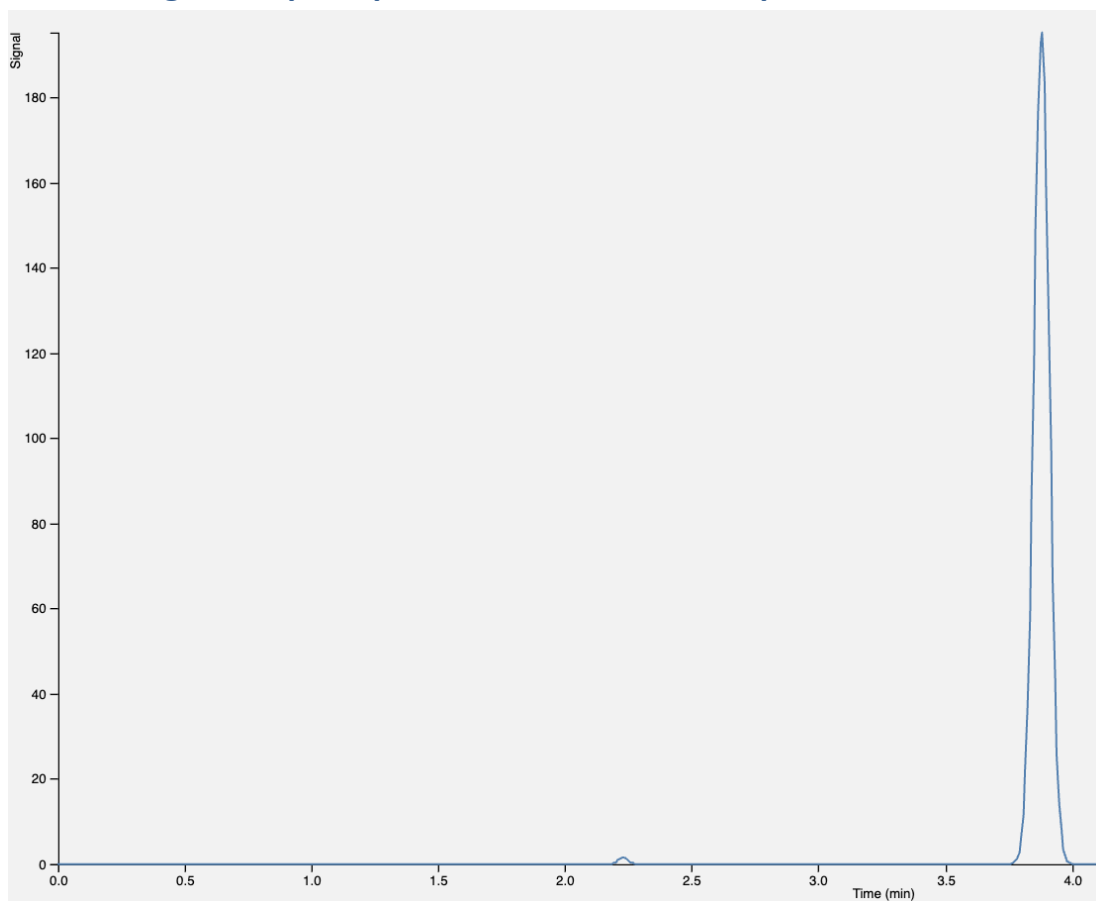
## PURITY RESULT

Purity is **99.51%**

**Product weight extrapolation: 5.9mg**

Total impurity 0.49% (trace inert solvents and minor unidentified peaks; no significant related substances or degradation products detected above 0.1%).

**Chromatogram Export: please note that x axis represents elution window.**



## CONCLUSION

This sample was analyzed on a Thermo Ultimate U3000 HPLC stack using reverse-phase high-performance liquid chromatography and determined to contain **99.51% Semax** with the remainder being impurities of minor significance.

## CERTIFICATION

**Certified by:** Jonathan Barber

**Title:** Analytical Chemist

**Date:** 13 December 2025



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